M. A. R. 57 (Rule 116) No. D

Measurement Book

346237

Serial No. I st and final Bill

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Name of work: providing R.O. plant in ward NO-13 - Shettihalli sub-division.						
	Est-Cost: 15.00 lakhs						
	Job Code: 013-19-000089						
	AS NO: EE/DD/AS/82/18-19 dt-18-12-2018						
	TS NO: EE/DD/TS/18/18-19 dt-18-12-2018						
	Work order: EE/DD/WO/353/18-19 dt-25-2-2019						
	Agency: Sri. Ravikumar. N.C						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

① Earth work Excavation for foundation of buildings, water Supply, Sanitary lines and electrical Conduits either in pits or in trenches etc. Complete as per Specification.

Long wall — 2 × 4.60 × 1.0 × 1.0 = 9.20 m^3

Short wall — 2 × 3.70 × 1.0 × 1.0 = 7.40 m^3

for water Supply — K 86.0 × 1.0 × 1.0 = 86.00 m^3

Total = 102.60 m^3

@ Rs = 309.46 / m^3 = 31750.59

M. A. R. 57 (Rule 116) No. D
Measurement Book 346298

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

② providing and laying in position plain Cement Concrete of mix 1:3:6 with opc Cement @ 220 Kgs, with 40 mm and down size graded granite metal etc. Complete as per Specification

Long wall — 2 × 4.60 × 1.0 × 0.15 = 1.38 m^3

Short wall — 2 × 3.70 × 1.0 × 0.15 = 1.11 m^3

for plat form — 1 × 4.60 × 3.70 × 0.10 = 1.70 m^3

Total = 4.19 m^3

@ Rs = 5517.80 / m^3 = 23119.58

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8

(3) providing and Constructing Granite/Trap/Basalt Size Stone masonry in foundation with Cement mortar 1:6, Stone hammered dressed in Courses not less than 20 cms high, bond Stones etc. Complete as per specification.

Long wall – 2 x 4.60 x 0.75 x 0.60 = 4.14 m^3

Short wall – 2 x 3.70 x 0.75 x 0.60 = 3.33 m^3

Total = 7.47 m^3

@ Rs = 4578.48/m^3 = 34201.24

M. A. R. 57 (Rule 116) No. D

Measurement Book

345203

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8

(4) providing and Constructing granite/trap/basalt Size Stone masonry in basement with Cement mortar 1:6 edges of Stones Chistle dressed in Courses not less than 15cms high, bond Stones etc. Complete as per Specification.

Long wall – 2 x 4.60 x 0.45 x 0.50 = 2.07 m^3

Short wall – 2 x 3.70 x 0.45 x 0.50 = 1.67 m^3

Total = 3.74 m^3

@ Rs =

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	(5) providing and laying in position plain Cement concrete of Mix 1:2:4 @ cent 240 kgs with 20mm d/s graded Cm granite metal etc complete as per specification						
	Coping —	2	4.60	0.45	0.10	= 0.41 m³	
	@ Rs = 5949.73/m³					= 2439.38	
	(6) providing and laying in position reinforced cement concrete of design Mix M-25 with opc cement @ 340 kgs, with 20mm and d/s graded granite metal Coarse aggregates @ 0.78 cm and fine aggregate @ 0.48 cm with kgs plasticizer etc. Complete as per specification						

M. A. R. 57 (Rule 116) **No. D** 346270
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	plat form -	1	4.6	3.7	0.15	= 2.55 m²	
	@ Rs = 6962.31/m³					= 1773.89	
	(7) providing & removing Centering, Shuttering, Strutting, propping etc. and removal of from work for Sides and Soffits of beams etc. Complete as per specification.						
	Qty as per pre-measurement recorded in						
	P — of TMB =					2.49 m²	
	@ Rs = 279.99/m²					= 697.05	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(8) providing T.M.T. Steel reinforcement for R.C.C. work including Straightening, cutting, bending, hooking, placing in position, lapping & welding etc complete as per Specification						
	Quantity as per pre-measurements recorded in						
	P- 4 T.M.B = 0.26 Tones						
	C.P.S = 66273.5 T = 17231.17						
	measurements Contd.. to P- 346274						

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬೆಂಗಳೂರು ಉಪವಿಭಾಗ, ಬಾಣಸವಾಡಿ ಮಂಡಲ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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M. A. R. 57 (Rule 116) No. D
Measurement Book

348274

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency..... From ..... To .....
Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	measurents Contd from P-34 627 1/2 T.M.B						
	(9) providing and fixing pull and push type rolling shutte of approved make out of gauge. 75mm wide Cold rolled ste laths & Convex Corrugation, with side guides and bottom rail etc complete as per specification.						
			1x2.46x2.60 = 6.24 Sq.mtr				
	@ Rs = 3129.60/ m^2		= 19528.70				

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(10) providing and fixing top Covers made out of 20 gauge m.s. sheet over pull and push rolling shutter bent to shape including cost of red lead primer etc. complete.						
	R.S – 122.40 = 2.40 mtr						
	@ Rs = 517.23/mtr = 1241.35						
	(11) providing, fabricating, assembling and fixing in position aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain groove and double groove etc complete as per specification.						
	– 2 x 4.60 x 3.0 = 27.60 m²						
	– 2 x 3.70 x 3.0 = 22.20 m²						
	Total = 49.80 m²						

M. A. R. 57 (Rule 116) No. D 346275
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	@ Rs = 3610.74/m² = 179814.85						
	(12) providing, fabricating, assembling, and fixing in position minimum doors using following, aluminium mat finish out plain section 101.6 x 44.45 mm thickness 3.18 mm sec 2.404 kg/m. door shutters, vertical section etc. com per specification						
	Doors – 1 x 1.50 x 2.10 = 3.15 m²						
	@ Rs = 6899.99/m² = 21734.96						

AE-13

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(13) Applying oil boil ready mix priming Coat over new steel or other metal Surface including scrapping the Surfaces after thoroughly etc Complete as per Specification,						
	R.S - 1×2.40×2.60 = 6.24 m²						
	@ Rs = 31.71/m² = 197.87						
	(14) Providing and applying enamel metal paint two coats over the new steel or other metal Surface etc. Complete as per specification.						
	R.S - 1×2.40×2.60 = 6.24 m²						
	@ Rs = 89.67/m² = 559.54						
	Providing and Installing of pre painted galvalume Trapezoidal profiled sheet of approved make 1060						

M. A. R. 57 (Rule 116) No. D
Measurement Book

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency..... From ..... To .....
Date of commencement of work.....

346276

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	mm width 28-30 mm crest height with crest distances etc. Complete as per specification.						
	for R.O. plant - 1 × 5.50 × 4.50 = 24.75 m²						
	@ Rs = 8420.00/m² = 208379.50						
	(16) Supply of water purification unit, Installation and commissioning 1000 LPH with chloronide plant with mild steel vessel without UV. etc - Complete						
	@ Rs = 622687.50	01 Nos.				622687.50	

AE L3

D. EE

EE(D)

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Additional price for installation of ultra violet system..						
	01 No.						
	@ Rs = 10125.00 / no = 10125- 00						
	ype Dust/Grit.						
	for water supply —	1	86.00	1.00	0.30	= 25.80 m³	
	@ Rs = 1073.25 / m³ = 27689.85						
	AEE						
	AE-13						
	viding and laying in position to required level or slope						
	internal diameter salt glazed stoneware pipes grade						
	acting with stiff mixture etc. Complete as per Specification						

M. A. R. 57 (Rule 116) No. D

Measurement Book

346277

Serial No. .....

Name of work .....

Name of Contractor of nature of Agency ..... From ..... To .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	water supply pipe line —	1	86.00	= 86.00	mtr		
	@ Rs = 478.67 / mtr				=	41167.62	
(20)	providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix specification including pre-mixing the material with ast one etc complete as per specification.						
	water supply — line	1	86.00	1.00	0.15	= 12.90 m³	
	@ Rs = 2026.30 / m³				=	26139.27	
	AE-13						

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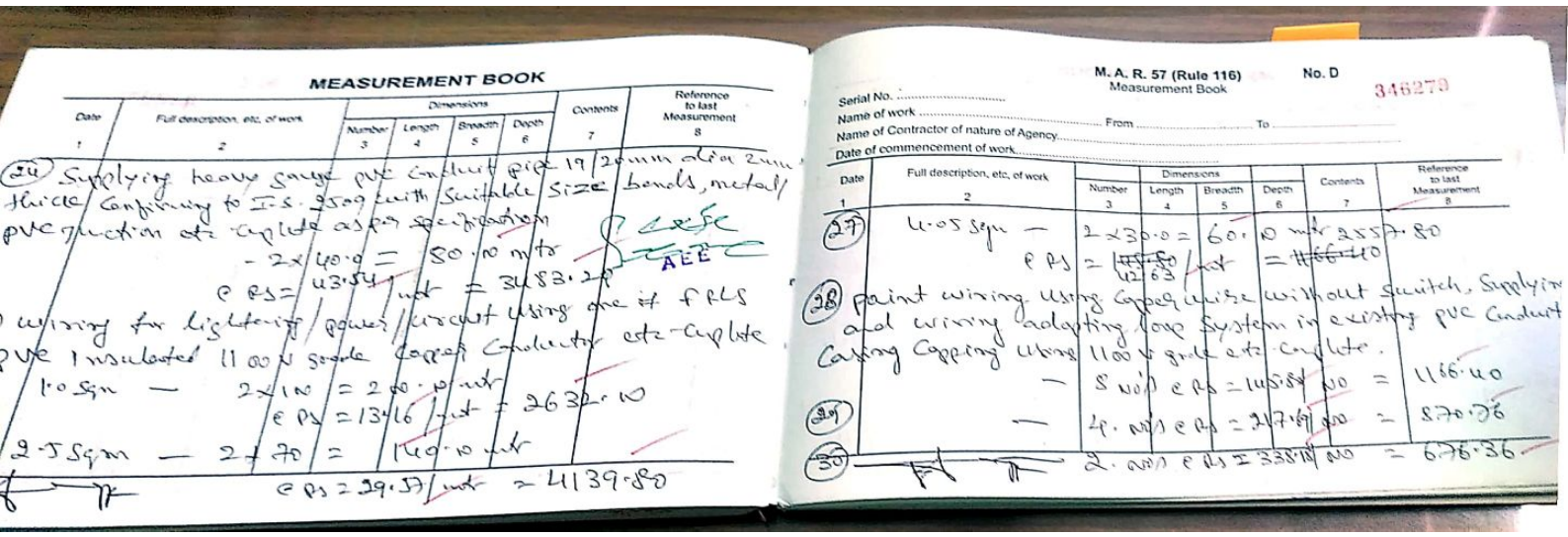

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
(26)	Supplying heavy gauge PVC conduit pipe 19/20 mm dia 2mm thick conforming to I.S. 9537 with suitable size bends, metal/ PVC junction etc complete as per specification						
			2×40.0 =			80.00 mtr	
			@ Rs = 43.54 /mtr			= 3483.20	
	wiring for light/fan/power/circuit using one ph FRLS PVC insulated 1100 V grade copper Conductor etc-complete						
	1.0 Sqm —	2×120	= 240.00 mtr				
		@ Rs = 13.46 /mt			= 2632.10		
	2.5 Sqm —	2×70	= 140.00 mtr				
		@ Rs = 29.57 /mtr			= 4139.80		

AEE

M. A. R. 57 (Rule 116) No. D
Measurement Book
346279

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
(27)	4.0 Sqm —	2×30.0 =		60.00 mtr		2557.80	
	@ Rs = 1263.50 /mt				= 1166.40		
(28)	point wiring using Copper wire without switch, Supplying and wiring adopting loop System in existing PVC Conduit Casing Capping using 1100 V grade etc complete.						
	—	8 no's @ Rs = 145.84			no =	1166.40	
(29)	—	4.00 @ Rs = 217.69			no =	870.76	
(30)		2.00 @ Rs = 338.18			no =	676.36	

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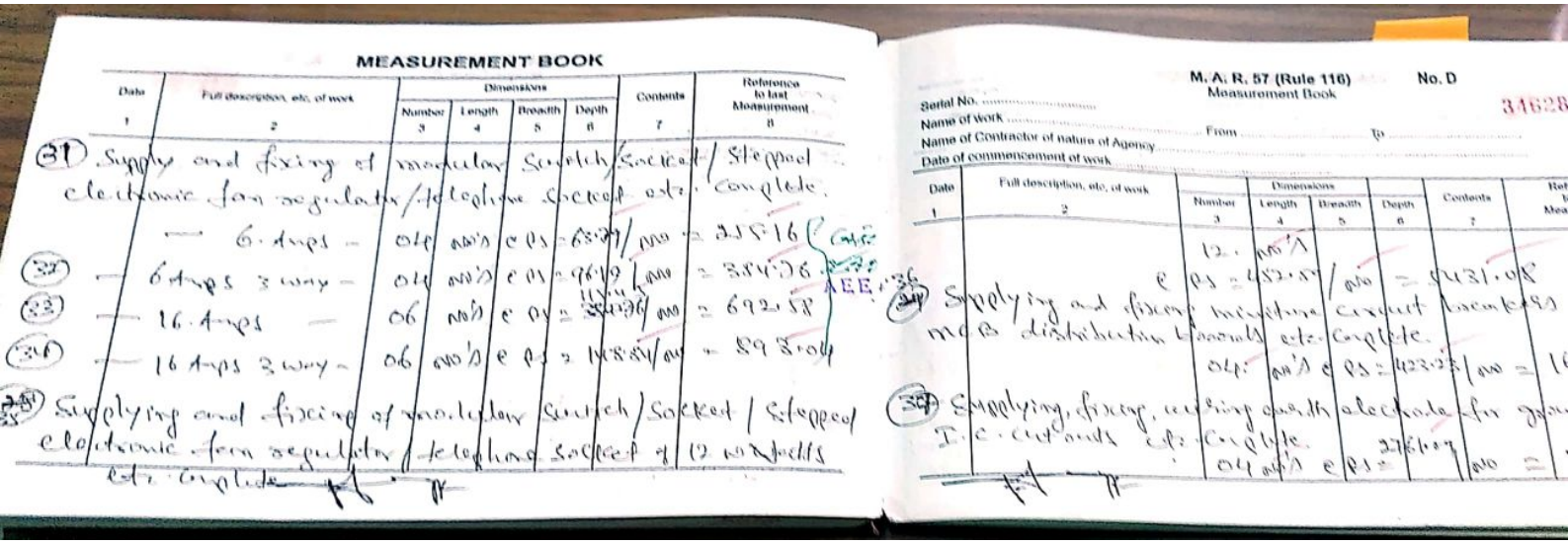

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
(31)	Supply and fixing of modular Switch/Socket/Steppool electronic fan regulator/telephone socket etc. complete.						
	— 6 Amps —	04	nos's	e ps	63.37/no	= 253.16	
(32)	— 6 Amps 3 way —	04	nos's	e ps	96.19/no	= 384.76	
(33)	— 16 Amps —	06	nos's	e ps	115.43/no	= 692.58	
(34)	— 16 Amps 3 way —	06	nos's	e ps	148.84/no	= 893.04	
(35)	Supplying and fixing of modular Switch/Socket/Steppool electronic fan regulator/telephone socket of 12 modules etc. complete						

AEE.

M. A. R. 57 (Rule 116) No. D
Measurement Book

Serial No. .....
Name of work .....
Name of Contractor or nature of Agency ..... From ..... To .....
Date of commencement of work .....

34628

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Ref. to last Mea.
1	2	3	4	5	6	7	
		12	nos's				
		e ps	452.55/no			= 5431.06	
(36)	Supplying and fixing internal conduit wiring complete distribution board etc. complete.						
		04	nos's	e ps	423.25/no	= 16	
(37)	Supplying, fixing, carrying earth electrode for protection i.e. cut outs etc. complete.						
		04	nos's	e ps	2761.07/no	=	

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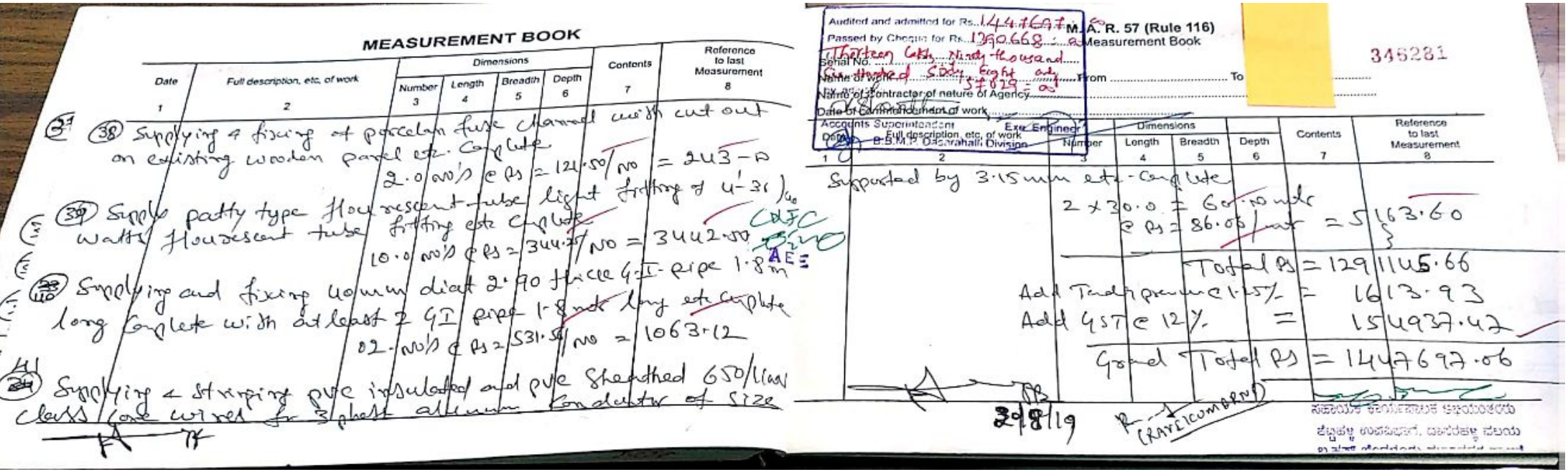


MEASUREMENT BOOK

M.A.R. 57 (Rule 116)

Measurement Book

345281

Audited and admitted for Rs. 1447697

Passed by Cheque for Rs. 1290668 : a/c

(Thirteen Lakh Ninety thousand Six hundred Sixty eight and 54829 = 00)

Serial No. .....

Name of work .....

No. .....

Name of Contractor or nature of Agency .....

Date of Commencement of work .....

Accounts Superintendent — Exe. Engineer

Office of the B.B.M.P. Dasarahalli Division

From ..... To .....

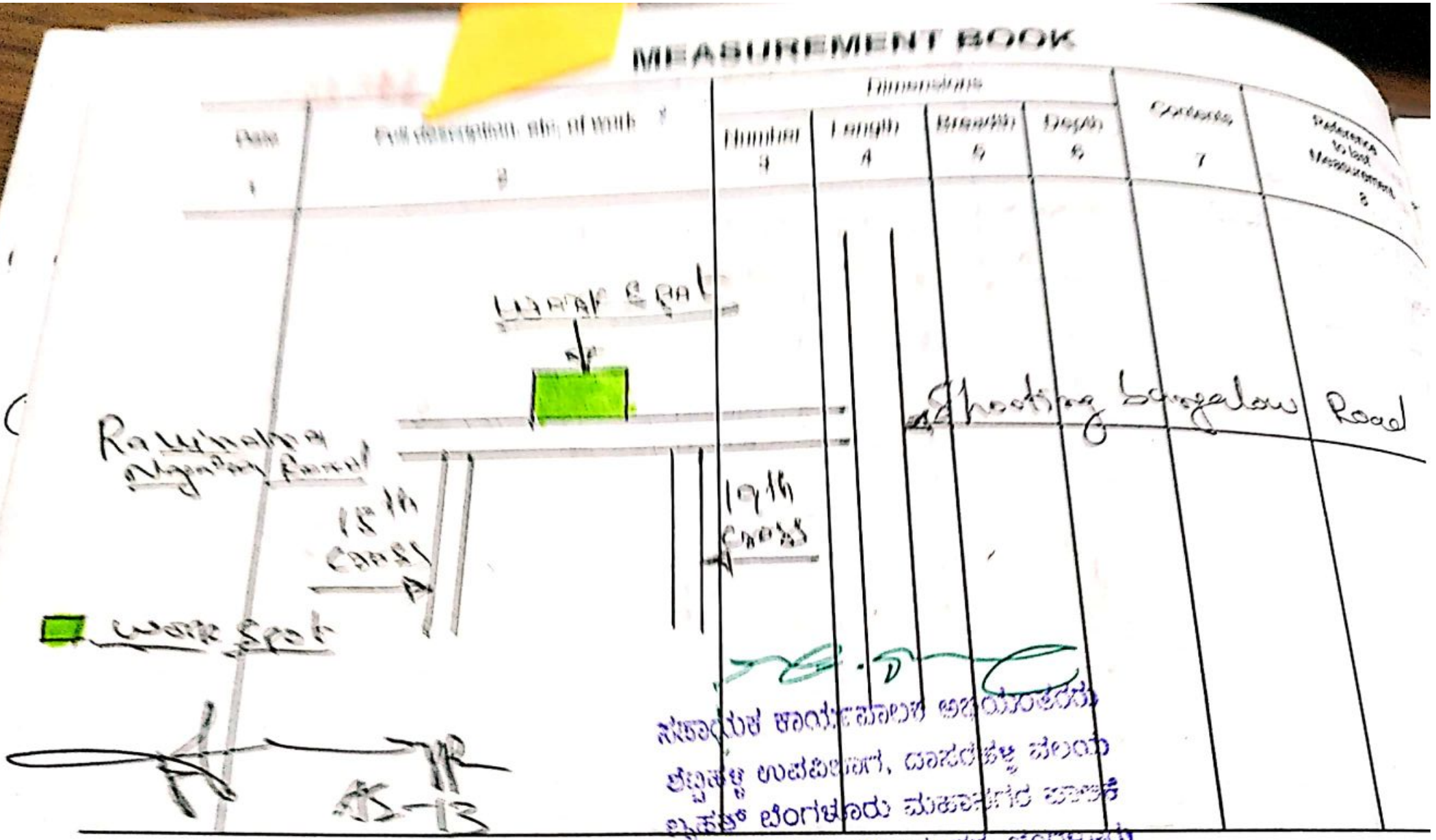
Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
37	(38) Supplying & fixing of porcelain fuse channel with cut out on existing wooden panel etc. Complete						
	2.0 Nos @ Rs = 121.50/No					= 243-00	
	(39) Supply patty type flourescent tube light fitting of 4'-31/40 watts flourescent tube fitting etc Complete						
	10.0 Nos @ Rs = 344.20/No					= 3442.00	
	(39/40) Supplying and fixing 40 mm diam 2.90 thick GI pipe 1.8 m long complete with at least 2 GI pipe 1.8 mtr long etc complete						
	02 Nos @ Rs = 531.56/No					= 1063.12	
24	(41) Supplying & stringing pvc insulated and pvc sheathed 650/1100 V class cable wires for 3 phase aluminium conductor of size						
	Supported by 3.15 mm etc - Complete						
	2 x 30.0 = 60.00 mtr @ Rs = 86.06/mtr					= 5163.60	
	Total Rs =					129 1145.66	
	Add Tender premium 1.5% =					1613.93	
	Add GST @ 12% =					15493.47	
	Grand Total Rs =					1447697.06	

20/8/19

(RA 1 (CUMULATIVE))

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬೆಬ್ಬಳ್ಳ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳ ವಲಯ

MEASUREMENT BOOK



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